Oler Ming & Dan Dur. you not was received in deer Deason and Should have been answered before, but I wanted to get an answer from a letter that I sent to various burg. Gyear that you patrione has been sally truet, but I could not avoid the delay. The Season has been very late so That our Sphaginous Swamps have a few days, When you letter come on streets were covered with snow and steighs were in un Auly last week, banks of Snow were in sight frem my windlows, and we have spent but there or form days without a coal fine. The box of plants which I received to day I forwarded to you by the first malil out. Hope you will out there was the work there were there may were there there fighten minutes time to give but I discovered that a few of the male

flowers were growing I booked at Pollen grams were strewn over the whole flowers as if shaken out Kom my Skight Skammation 9 hope you will franced at least two box. S did not take out all the plants of most of them had been out off. Sam sony for that as) Struke it desirable to have all 3 the growths at once and I shall & endeavor to proveni Thim for you I shall if prystle go to branenstrugh myself much with or the week! following. hinfortunately I have no prospert of frueling Them meaner home The country around us is mostly barrier Dandy plans covered with somb prines, and the meanest hills when sprices grown an not within my reach. However of & go to wanenstring I shall send you a lange bix by Express as you derin. I think you may sufety sittle on May as the time of blogsoming for our little plant as the plants in the from the unisual warmeth and

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handling S. Mink S shall fried thein Alogsoning any time within two weeks It may be that after blooming the male plants fall while the females go on until the autumn when the seed is upened G. have no notion of the plants sent but I conclude that Est Eich Ship was ent from a is a different the as I derived them EN to do. The largest plants that I Les have von deen wen pemales of a late growth. Then males seem much smaller. I cannot but think \$ 5 that furtilization is effected by the the wind still viscots may have some Ehen in the work but I believe the · male flowers ared much the most about as in Pines. Sie that can the funales should be in the minestrate ninghtvihood of the males I must go to homens brugh at all svents to look for myny, I hom many otten bottaments will have good opportunities for observing the divil jument of the flowers and. their perfection. I cornions question has gusen he my hund from something I heard this hunter from a find who was is me yours ago in the himber brings In the colges of the Idenorder

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region the says has how sold the . tishirer four some hants for less then its market value beaun it was what lumbanien know as "dead wood" Still green in Johnge but vary rough and with crooked hints organs with them of ohiscure and rapid decay. He said he could releat the busher sawed from such timber from 15 looks about, so depend was it from the Sound Syrine lumber It would decay rapully any when I will Endrand to get own of the discared wood as well as the sound for I am ourious to know what the change is the the fibre of the wood I have brand much from the Smite in the Adrewaders of the duray of the block Syrum, Evidently the result og penesitei growth. your trom at least has been mostably sprint in strictly ong the Compere this winter. I also study most Botaing bonton that is when I have books and I do what I call m, work summers. This winter I have only read Borkleys British Fringe of which I amender a little having freshalled musty for

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Our " Ming 7 86 its changes. I haved it into stranges forms, and unheard of places, and made a discovery that I particulary. value for itsey. I had to beam a little of severel, of analogous plants of a low order, and I got them writes of daily drilling with a mieroscoper. At the End, I understood best of all how little Sreally know of Botany, and how much their was beyond my ceach. Africal gave me this writers a complete ocht og Withings British Plants, Sofrad in it an account of the movements of the Drosera. 5 discovered that you mingrely from yours ago, and had some works of pleasant. hyperment in feeding my plants with insects and bits of they. By the by a friend wishing to work or grapses Journs truly Long & Milling tim

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Gleus Hallo, June 24th De George Meelmann Dear Scal your letter Enclosing \$ 10 was duly hereved. I thank you Reactely for your Juneously and will undeavor to desure is, by trying my best to agost you in solving what seems to me a very difficult guestein un ragard to the habits of on paraste It ocurred to me while I was in Towners brug that its growth from delicate threads whe wit. running along the back, & Stropped the back of sevener twigs wet tried it with a hand

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but could detert nothing Itall in looking at the Johnage of the intertied lings of throught I would be portrois in Sugning that which parasite gun 500 regulary in a certain position. with regard to the leaf, The Joleagn of the infested has is upt to be them and pale. I will look our for comes, and for healthy hanches on infected hers and I will whether I same or no examin the Bulsaniea. I have come homes Devaral times from bataning y we com drewhed, but that her hurts me, only feel that I have no right to monvenime often, Then an but few of the Atris migres planties here, the Norway and white Sprinen growing much better on on Thallan soit, or rather in our porons time stone. It wannens trung The soil is gravely with layers of rounded. Stones, me fact a glacial

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drift Their troubtine is primitive, bries swondy Thin wite granti, with broad trap deles, and ragged in lifts. S. looked one another Sphywas Ed Dwainy while then, but formal no Es Spines to greate of and none infuting The one when I get the Accenthotion is long, and has wrany Spriner up and down both borders, as well as smell ones on its surpen in cathered fromps, I went conful on the north rast of them were no Accustotom except on a bell along the western color of the Swamp All this spring in the Ewamp ham a sutilize took met an covered with hickurs, but only those bearing parasites an very Amuch distinted, I saw when In Vary had been 1 He thought I runt him too four morth, I think in goning farther north my uly; that Sidie not send him far Inough horte to See the best spennes I shall endeave to plant sieds here in the transers of my prods

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having nom of my own. and & till you that small. Sprines two ar thre feet high an sometime found bearing parastes. I mean. to look for the very least hees thus been them. Com it be that believe some of the Jungoed parastes VV attacks a plant through the coty ledoris. That can headly be cetter. Da you have any Atres ragine in Statomis cometres, it is an glowing hu, If you do you might Try to Deed A grussely of I am not sufferently shillful. I shall for to Evaninstrung by the Sciences wich in-July pertiaps the first, and hopis I can succeed in learning omething more Jatisfactory this true.

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Read July 11 Ale in 1 ier George Sanc ter in plants peched is. in More you willyfund u Small bundle of men /1 with blue viruad. I the crimson Heaps From from Seed, as it was on branch otherwine for the parasite A little thickening is observable. at that point in the varh intirely around the twig. I looked for more " comens of the kind but found non. Now as I have arrived abone ruy definite conclusions in regard to this plant let mi try is show you how an injested tree tookes. 5 have the Artists among im bring and sisius but, I am a very poor

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No I is a true with three infested branches No devo a single hanch Showing the first branch white wa: attached and which is dead while the others are green and worked with Freuttvobum No Jis a dead tree. i saw at wanens bring. I have forme. that no wholi his is attached unless! it, still a renj small one, but Ingle. Franches here and their, When a seed is planted it forms a mays of thee i would the tring on the typues of this a of and mutil it exhaust, the That would be a work of time but in every direction above the circle of wortlets, Missing of dense tufts of small gruich growing shoots its even as the branches on which the parasite is fried dies, N seads out whomes into the fish and snewlent back of the young branches, and they on tun become thickly covered with the plant, always I think or the same typus the frist which took not then. other hanches of the tree may not be at all inferted, or not so largely and office. " " " much worse but mornably the

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presence of the reversitie an announters is shown " one the texts of your vearche med the distorations of the anger north above the inferted journes. No. Sam very glad to be ath to tell you that know That colornes of the different series do inhabet one tree, always I think on separate d'envires 9 8 electiel a soutable tue, and nad it sawed just eneugh to pull it over iasily untitient To gaming. On the very top was a tuff of twings was a tuff of twings as large us means heads which : Z bore only males. All the blogsoming is a ones gones, only the growing butblets or is is your left. About a foot below was The mext two to bore males alone; below then were two larger trifts of fernales med one anon Janueles. Dam satisfiel I on that point, its to the presence. of moles with the females on the 1: ame shoots d'annot be so position As yet I have seen mone. I's an trees three and four feet bugh " inted in their whole tops un! the point of frist planting of the fra aset planely discemable showing Etrat it took plan while the tree was van bluell pluben two two her Area Comes an very Scaner Mis Gear Last. year all tt. l'empe en wen ivaded

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Areenthobrum, steleme & sent initi. Ihr go within to this haraste are all from trees which i we directs covered with this parante sent om ar two twigs of males too and Somerely trust that they will all get to you in sood order. I writed most heartily when I was examine the felled tree that you were their to ree for young. However I diet my bert to ren for you as I diet before. 5 : in sorry I deel not fell a her then us . meant to have done but for this ram By of the few balsames saw none with distortions or Schoole timbe go to the mountains in a few weeks, and will while then try to look their up as I have opportunity I wish I had some special work to do for you their My purels him thin of any thing you would like pray let me know and if it is possible formal. I shall so glad to do it for you brily yours Olony "

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ylens hall Til- 17th. 17-75

freeze if held in I felow but all since the ender Epiter Suntanen, letter and a letter the There was needless to get to just in men un lers you sertete et ine 1e. Ju tett the breth. I was in he , es you. weath, in it wealst bear bear seare isterf open try our description time The elici and me are all the Esseent les remet un eque du traite 11 the Species on phendel here years in that on ent, their det the place the the Phase represente to the Jeuler efinele, hæd plant, met firt tire et airente une entert en une an en entere they it process for the receile i deel so heartet. Ete mi herke ye ken beautifuly this are in the apart; the seed shorthis one way, and this preset lucition. En lucuelon bien, ment. mingen i dege time ij. New ive land foreucts will be alt. to make observations in methics to a -Contemporarios in mis es de mantiques its sung Concert Grein, trau i smell

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made stat the preeje is to be in Dure efter fraktelefaur. Shong to have then you line in it man entre cot, Junear 12 to 1211 to 12 1 dens was after Some er. Sar mil han a la sind a Tile the house alone to here there is plants uneles les tous sont en esta en esta en -4. a limer desules à men. Elegent as line thur. as i unite et i getter again I vive en la Co atria, person stan, las inc (2) Side. Gentlemen. men. al. " fre met of themis boots, and Felerate ale. inat them. are messenting them, and tite. Seen jets breng lanen in in in the just. Edinista 11. in the property bearing the second of the militare to the start of the st during to clay all der, hard order E stavalet le cet, le, e. la leer en all dea , comet leatt in the fruit in we have the form

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et eent een een en en en een termen de seen de les spertensen se union januer. Il. Municipal de de la line de la finance i herm te vijle, til ener - et entre ! last i sliety i the thethert parte tetarres de france la france, de était, un la était, information of the atomptain to the dee su much if a the efective the itelieure liquer-sol eine juice. inne present house, sindy in the oftermens if lede wester Sinemer Three free beig brief fine en item haders so sur sure they 1 mm premts, and studied? they secreted to be in to street the. it an en seg timente, kefore stutente. The network there it wan if the the onle a fen , which I known o Salwa, begæt for seured, miliant deut gland that dean men unte final, !! Elle Seme tleurge en en ben - det !! tisturchy! a un har here. last. The recon was truly last part all in, frances ell. I chet en stre la ice of the time town they, in berthe brokent finne.

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(. lean, de an Soistim, ei) in oferner who' has fillerand in ashens Elu in the transfer of the state of freme. D'ivvale sometime e d'étraile. Contra en ele entre et their, if y min, of mon tel, wet the stourt- plain all ettour pour timen leaves bengenen I then in quite harher, the the dieserth line oursey be prome telu wood than I rent you because i blurengs boom Beleeted thise Colonies which I would but without injune, or treating of the parable of siending my mon planes durit but in the a put et l'elever, milie summe as herne a fen plants only, hisome lippenente on other wood. The Scottered points were high law of tall. lary till yours I stract be gladte in y - 11. tohen. " us weadry.

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Glens Falls Sout 19the -13

De Grorge Engelmann Dear Sin, Saint by to days mail two packages of Ar cultistrim prached in Mags I regret to be obtiged to say that the plants an not at all what They onglet to be give you an edea of their their breed. They ocem to have been blighted when about hay from, as a Second cases from the sprint as the first, which is of course quito small and Carnet have been fertilezed. Then the Swere port of two weeks agor, or near men two asseks has sported most of the others They have a shrivelled look. I want down to the marsh alone and Opent nearly a clay them Examiners what plants I could reach, and the but of them I sent to you. Many colonies were ready to fall at a touch without having request a seed. Auly a few seed vefsels had the swellen Servi transparent appearence of last years sent orples. I could not huy

GEORGE

thinking that some of the coloner. proper up in the trees mught have suffered by form the just. The best plants d'sent, even Some genning. two lingh for cutting. I pulled them off above my head. I put in some short prices of wood with plants on them If the plants an broken you cannot fear to find the fresh bases Should the with the word Seven or eight years old. Some of The feed ogsils which I opened had the unmature Seed and a Glutinous majs adhereng to one Enel I) this ruel instead of Evering it. I ded not su one of the relate is enque from the report, but I formed an opening at the base of svery begsel when I pushed it from the stem Showing that, that, was truly its plan of Escape. I have no words to uppress my disappointment. I had writed to show you what a beautiful puries of nature I had been so fortunate as to have seen myself. I can only Day that if it is on my power at any time hereafter S' shall still termenter the otheration that I feel to make plans to you this mort intertie operation og om ugly little mistletor.



I melen a Spurmen of a proguent fern which seems a variety between Dudinn thelypteris, and I hova bora cuna It has the outline I expora bora cense and the confluent fruit dut and recurred Meriquis of primue of the thelyptics. Is paler and softer, than Ithelyptics, and beny pagrant when bruises or direct he. The open air, Is formed in some large mayres in one or two britains Coming the Advisordaces. I found it fort form yours ago at New Vond on a morntani When a spend hed a. camp Tooked a long true for venuel Greys, when the bush had been cleaned away about the tent Sim them have Deen it gathered to hang our putuis forts pagrane. Do not think or has been noticed by my by my botament through 5 finis the country preeple knew of it. Sformet their Summer Hreroch low borealis zumg in crevuis of a born mountain Shile which is a glaceer mon Their Eight months in a year and Danthoni Spreate growing on a mountain when Potentetla Fidentata, and Soleologo brigance were the only plants Egept a single mogs.

I hope the plants will reach you in as good order as populor & was advised to park them in bags, and the bogs & took to the Swamps and packed on the spot. Brought them. home by Express and marked them. at one So that the plants growing on the hus yesterday, and to night for on the road to St Louis. Inst they will reach them coon.

Very truly yours.
Mus Livey & Millington

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Glens Falls Oct 17th 1873

De færge Engelmann Hur Svi Dan teng Munch ofteged to Mu Saik for Sending you the Specience of the Anna treg Arcentteitrem, pom Inllevanto The Specimens I sont ever designed of popula to show you how the plant foreibly, theores the said to a distance both that expert in brew I trunned the lings down to the mature growths, and packed them in bot mejs, er rather damp mogs. I configs that Shad terners doubts of succep, since my plants were blastid tothe by danglette and by post. Of the droughth I am not Sure It meny have teen a late summer or Syring flost, but the Scason has been very dry and atternately hot, and cold. yos; a perfect spermi should melude a branch bearing matur plants, and the plants for next your, as well as the luter grønster of the Atris, Sherring the points when the bulbelets appear through the back Such a Speemen would be instruction, (it is a comprehensive or rather a convenient word) Shope Dr Parry would not reject all the words we bonow from the Renele breause they are not English Scon very well understand how his haring writed

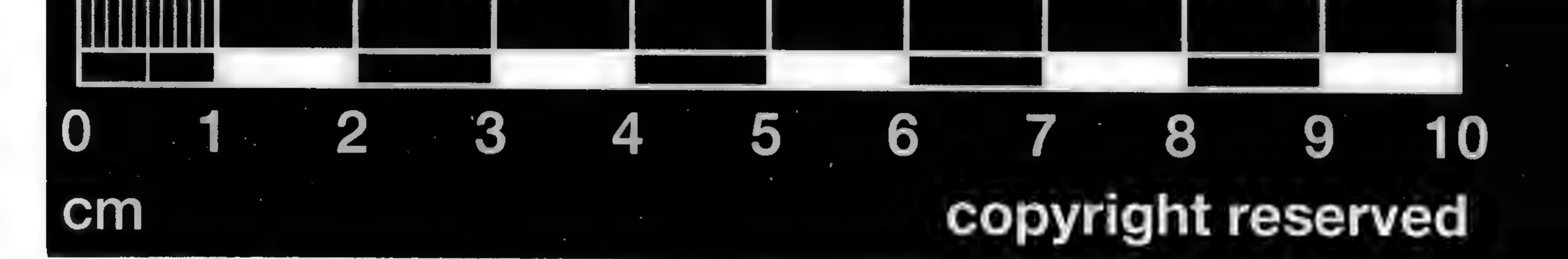
hum positive in Such a matter. It may nor be strictly peoper, but it seems to me that we have outgrown a single lunguage. A Composte Juegele may han a Compesite language. I am waiting patiently for the leek to tell us something about the pengoral para Sites, of the Atres. Balsamea and I men are both inferties by a distructive fungus I have also seen a Time so affected. It is most noticable in it Balsamea but the black Spine Suffers most. I went through a every of others that were enjested this summers itt find sight the true seemeet to have Colonies of Recentholon but I som saw that it could not be, some nearly all the hunches were corned with denie mats if clumped or dwarful foliage. Large trees, covered with a heavy maps of Shill green leaves had fallest here and then young their were all as well as old. Jan rods away the Atries were all clean, and healthy. In the effected parts the back is Hui kened, and the leaves shorter, or surden and marked with brown dots. That ne home to examine them further but 9, Could not help feeling intusted since here Forest trees, I am taken hoful to have wather when the tops went so dense that we very

looked from a mountain upon a landsup full to the honizons bring of a forest that man not marked. of the Lem to Pring Eatine. He writes me that he is doubtful of its being other than a faguart of Spermen of A Moraboraceuse, Since Jems a are not rarely payrant. That is time. The I z Asplemma trechmanes has are acriel and E not disagree ables ismelle Dreksenier has 50 a. puity smell Both vary in interesting w oder Still, taking In Grays Manual for my grude I believe in its bring an intermediate form, breame the purt dots an confluent Su & novaboracense he tells us the first dots are never confluent Shave seen it for for years in suggeon. and until this summer thought it & thelyptens, banjung in crittin only, but this year I booked it over again on the Sport when it grew. All Jems very some in forme, and S conseiler a uneltiplecation c) names for those ranations as a sort of houblesome nonsense but in this can. It is the funting, and the remarkable banilla hela pagranu, which makes it different from the fern it so strongly resembles in other points. I regent that I have no mon Spinners, I had my brok full of grapsigand dedges, and

ceviled net save what I had in good oretwo Since they were very much without others (It them home. I shall indea, or to in them meet year in order to get Try lation a hong workind young ponds. Thinking of the woods when Ight them, reminds me of the Adlume I saw then. Have you even seen aform which Mr Leggett calls degradation Of the Hollunner. I have deen bluce. but importunately neglecties to seeme sperments Su one care I know that the plants upmit seed which with seen the same years unto plants hardy Enough to encluse therede the writer, and to grow and blogsom the following Summer. The plant was thingthis and bloomed prejusely, but this flowers win boy small and purplish, the Ceaves were fine, the class feeble, and the whole plant nor over then feet lugle. If it repend seed notre came up. It ocurs I believe. in a Constant growth from the seed, year, after year, as it is the habet of the Adlume to with In period of years springing up at long internals when account, experses it to the sunlight I have Seen some oursons, and teautiful instances of this in forests. A departure from this habit brings the degraded form he which this chaming plent disappears I have mede this a very gergyping letter but I depend on your good waters to forgin me i s'hespajs on you valuable Trung truly yours Allengton

Rev April 4th 18/1

South Haven ban Buren Co Michigan Mund 2ch De Jeerge Ingelinam. Dear Sin, I was very much pleased to receive gen- hnes letter which was from to me pour teleus dalls The plants will be sent on as soon as they receive my Card with directions. Heept my Stranks for the favor, and believe that) duly appreciate the Muchings which fræmpted you to remember un -e) had not thought you forgetful, er in any way remiss I know that you had abrudant orgenteeris and thin was nu more te fe duest & aux. Most heartily stad that you han an Opportunité le Mour Min Recuttertour Casting its seed. It is a very untusting sight. I scarely think it can be so clearly observed as in com Eastern plant an in the largery western ones





which do not beeath up when they Cost their Seed For I take it from what I you write that they do not In ours this I very form of the projection, breaks up Ste-parent plant and it is bridged i en pagments all om the branches of the true it unhabits. I' have found sum I wrote you last two new totaliters for treenthistrum ur your A Y Su one Stravel it on my tru of Atres that I could see (and the old prinction fourt was mostly of that Species for half a mile at least. I'am glend theel you went to Welerado . I hope that you will les the botaments of the country hear all about your experience there. I have followed Dr lang, fortstein, great pleasure. I heard through some of his princes last writer that he was in New Mexico, sueregspel and happy in his rescenches them. mayself kem botanissel very little

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for the last two years, having lost a show of my hitherto perfect health, so that I'can no longer walk as I have been able. & study what circues in any way, not connectedly but awarding to the best of my ability. This is to be My permanent home J'anypou. How been hun about sex, months, somely Rad time to look me yet, re that I do not know what it will offer for botanual stucky. I left one or two questions un solved at the East. which troubte me I found in a wit Theagueurs Swamp a plant with an upræfit stender stalle, no flowers, Ceures, Erneur Entir, un whorks 3thmile and at the work which was stender a cluster of flat bladdens overlapping Eineh ottiers like a burch come Sen fant it lesemtled a larch Com the nost and folded donnword, S. was not able to find it in finish

It may be a common snowsh.

plant, but as I failed to find

it out, it annoyed me as it does

in svery case when I have to lear.

Guestion manswerd.

If there is any thing I fould does

for you ham, I should be very

Slad indeed, and very proved

of the privilege.

Truy truly yours Mrs Levey & Mellengton,

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Res Meach Glens Falls, A Josefune Sth + Yz. Wanner De New York De George Engelmene Dear Sei Horward by to days mail a paule with a plant which & am unable te name. Homel de five years ago, and waited to recet en flower, and then left town without having seen it Mozsom In fact S. hem non been atte to fruit aflower) to grows in a Phlagavus Swampes to Zan Leen Juste plentifuly. Torts you be knuel snemph to till me what A is and obliga, Yours very truly. Mis L. Hillen ton

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS MISSOURI BOTANICAL copyright reserved cm

GARDEN

Aur Inne 232 an Amb is Epilolis Justantre Clargunumoseum Ment ! Glens Falls Tourne Co Ny June 2,0th 82 De farge Ingelmann, Dear Sir. S sent some Specimens of the plant with saly roots to M & K Sek, and he writes the that he thinks it is Epilobium mobble Ion, them of the four Specemens Sout, and, the fourth, Epilobrium palastie, L'var hneare, Gray Elmean Muhl). He can not however fined rosting openmen in flower has nothing of the kind. It is very sordent that the scales are of that character, as they pays into leaves grachealy, and have the membranaucres. They should if his swarmer is right, consist many Starely material. But they are not always regulary arranged on the sterm. Some an in four rows, some without order. Again if this is stoned for the plant, they will noturally som disappear, and he formed anew Later in The Season H When Scame hen from Chicago last October I spent some time on this ray Het looking for this plant, and though I dry in dizins

of places when I have since found it, Sfound nothing of it. Then was nothing alive on the sphagnen them but strutty everyeen plants, so that I had no guide whatever in booking you there



For wen very kind to reruenter the Steen the bin, but you dent me Speinens of I robustion - and I A musicance, while Shored in South Haven Mich. Some that new stateons are being formed in this state every news and then. Some what Scensidered inneistakeable signs in Intario along the Canada Southern road. The tram did not stop long Swengh for investigation The your that I left Militight Sformed Woodwardin argustifolia I growing not far from the lake and some them Alther of previoualis It, had been forwed them, in marshes along the harbor. 1. 5 left Michigan nearly two years ago, Spant a year in Chicago, and my present home is in New Bufsin Efsex Ce New York, when I shall probably uside Jone time Any Communication addressed to me thutvoll reach me in due season " Sam going to que met Dorne walks mon him, and shall continue to look after the plant I sent you, as I wear of I can to Efinist out use of the scales along the wort. I do not feel at all certain that it is what Mu but thinks it, but I am unable to that it is any thing che, so I shall want time since S save it flast. Plant slemely and no sign of Hogsom buds. Should it develope further before I leave him I will send you specimens. Let me thank you again for the Spenness Arenthotus Sout and for your knied offer of Trung truly yours Mrs I & Millington Adrys Can Dr Jel Garrett Gleus Falls, Noamm Ce & Yah

MISSOURI BOTANICAL GARDEN
FORGE ENGELMANN PAPERS